

# 2.12 Discovery of Non-MR Peer May Yield Unreachable NID

- [Status](#)
- [Steps To Reproduce](#)
  - [Configuration](#)
  - [Procedure](#)
  - [Resolution](#)
- [References](#)

If non-MR peer (2.10.8) is discovered by a 2.12 MR peer, the following problem may happen: if non-MR peer has LNetS that are not defined on the MR peer, it is possible that a NID on the undefined LNet is listed as primary. Later this causes communication problems when mounting.

## Status

Open, reproducible in 2.12. Not an issue on master and 2.13.

## Steps To Reproduce

### Configuration

Prepare two nodes, one running 2.10.8, another 2.12.4 build. Configure LNet similar to the following:

PeerA (2.10.8 non-MR)	PeerB (2.12.4 MR)
<pre>#&gt; lnetctl net show net: - net type: lo   local NI(s):     - nid: 0@lo       status: up - net type: o2ib   local NI(s):     - nid: 192.168.1.123@o2ib       status: up       interfaces:         0: ib0 - net type: o2ib4   local NI(s):     - nid: 192.168.1.123@o2ib4       status: up       interfaces:         0: ib0</pre>	<pre>#&gt; lnetctl net show net: - net type: lo   local NI(s):     - nid: 0@lo       status: up - net type: o2ib4   local NI(s):     - nid: 192.168.1.105@o2ib4       status: up       interfaces:         0: ib0</pre>

### Procedure

Run discovery of PeerA from PeerB and check the results:

Problem Behaviour	Expected Behaviour
-------------------	--------------------

<pre>#&gt; lnetctl discover 192.168.1.123@o2ib4 discover: - primary nid: 192.168.1.123@o2ib   Multi-Rail: False   peer ni:     - nid: 192.168.1.123@o2ib4     - nid: 192.168.1.123@o2ib  #&gt; lnetctl peer show peer: - primary nid: 192.168.1.123@o2ib   Multi-Rail: False   peer ni:     - nid: 192.168.1.123@o2ib4       state: NA     - nid: 192.168.1.123@o2ib       state: NA</pre>	<pre>#&gt; lnetctl discover 192.168.1.123@o2ib4 discover: - primary nid: 192.168.1.123@o2ib4   Multi-Rail: False   peer ni:     - nid: 192.168.1.123@o2ib4  #&gt; lnetctl peer show peer: - primary nid: 192.168.1.123@o2ib4   Multi-Rail: False   peer ni:     - nid: 192.168.1.123@o2ib4       state: NA</pre>
--	--

Note that in "problem" scenario, PeerA's primary NID is on o2ib net, which is not accessible from PeerB.

## Resolution

Port of [LU-11641](#) - Getting issue details... STATUS resolves the issue.

## References

[DDN-1228](#) - Getting issue details...

STATUS

, [LU-13548](#) - Getting issue details...

STATUS